

e[d]) a [at least one] separator to separate desired trimerization reaction products[;

wherein said catalyst system comprises a chromium source, a pyrrole-containing source and a metal alkyl].

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Claim 2. (Amended) A trimerization system in accordance with claim 1 further comprising [one or more filters] a filter operably connected into said reactor effluent line.

Claim 3. (Amended) A trimerization system in accordance with claim 1 further comprising a catalyst system deactivator inlet line [following the reactor] operably connected into said reactor effluent line.

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Claim 4. (Amended) A trimerization system in accordance with claim 1 further comprising a [reactor inlet] second ^{source} inlet line for olefin [feed] reactant operably connected into said first inlet line for olefin reactant from a second source of olefin reactant.

Claim 5. (Amended) A trimerization system in accordance with claim 1 further comprising an [a separator] inlet line operably connected into said reactor effluent line from a source [for a stream] of heavies [to be separated].

Claim 6. (Amended) A trimerization system in accordance with claim 1 wherein said inlet line from the source of catalyst system further comprises [comprising] a reactor inlet [line for] operably connected from a source of trimerization reaction solvent.

Please add the following claims:

12. In the selective conversion of olefins to olefin trimerization products a process comprising:

(a) introducing a feedstock comprising olefins and hydrogen into a reactor;

(b) separately, introducing a catalyst system comprising a chromium source, a pyrrole-containing compound and a metal alkyl into said reactor thereby contacting feedstock and catalyst system in the reactor;

(c) maintaining the feedstock and catalyst system in the reactor under conditions to produce a reactor effluent comprising unreacted olefins, olefin trimerization products, catalyst and heavies;

(d) transferring reactor effluent comprising unreacted olefins, olefin trimerization products and heavies from the reactor to a first separator wherein catalyst and heavies are separated from the reactor effluent;

(e) removing from the first separator a first effluent stream comprising at least catalyst and heavies and

(f) removing from the first separator a second effluent stream comprising at least unreacted olefins.

13. A process according to claim 12 wherein catalyst kill is introduced into the reactor effluent.

14. A process according to claim 12 wherein the reactor effluent is filtered before entering the first separator.

15. A process according to claim 14 wherein the reactor effluent is filtered after introduction of the catalyst kill.

16. A process according to claim 12 wherein heavies from a source other than the reactor effluent are introduced into the reactor effluent before introduction into the first separator.

17. A process according to claim 12 wherein the effluent stream comprising olefin and trimerization product is transferred from the first separator into a second separator wherein the effluent stream comprising olefin and trimerization product is separated into a predominantly olefin effluent stream and a predominantly trimerization product effluent stream.

18. A process according to claim 17 wherein the predominantly trimerization product effluent stream is transferred from the second separator into a third separator and remaining heavies are separated from the predominantly trimerization product effluent thereby providing a trimerization product effluent stream.

AB 19. A process for treating a stream comprising catalyst and heavies separated from the process of claim 12 for the selective conversion of olefins to olefin trimerization products comprising recovering a portion of heavier trimerized product.

20. A process according to claim 12 wherein diluent is introduced into the reactor along with the catalyst system.

21. In the selective conversion of olefins to olefin trimerization products a process comprising:

(a) introducing a feedstock comprising olefins and hydrogen into a reactor;

(b) separately, introducing a stream comprising diluent and a catalyst system comprising a chromium source, a pyrrole-containing compound and a metal alkyl into said reactor thereby contacting diluent, feedstock and catalyst system in the reactor;

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C.F.R. §1.121(c)(1)(ii)

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Please amend the following claims by deleting the bracketed word(s) and inserting the underlined word(s) as indicated.

1. (Twice Amended) An olefin trimerization system comprising in combination:
- a) a reactor; ² ₂₃
 - b) a first inlet line for olefin reactant operably connected into said reactor from a first source of olefin reactant; ¹⁴
 - c) ¹³ a second inlet line for catalyst operably connected into said reactor from a source of catalyst, wherein said first inlet line and said second inlet line are separate from one another and are located in said reactor to provide thorough contact within said reactor of the materials they carry[.]; ^{col. 6 l. 59 - col. 7 l. 3}
 - d) a reactor effluent line ⁴⁴ from said reactor for transferring olefin reactant, catalyst and trimerization reaction products [to]; and
 - e) ⁵⁶ a separator operably connected to said reactor effluent line to separate desired trimerization reaction products.

e[d]) a [at least one] separator to separate desired trimerization reaction products[;

wherein said catalyst system comprises a chromium source, a pyrrole-containing source and a metal alkyl].

Claim 2. (Amended) A trimerization system in accordance with claim 1 further comprising ~~[one or more filters]~~ a filter operably connected into said reactor effluent line.

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Claim 3. (Amended) A trimerization system in accordance with claim 1 further comprising a catalyst system deactivator inlet line ~~[following the reactor]~~ operably connected into said reactor effluent line.

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Claim 4. (Amended) A trimerization system in accordance with claim 1 further comprising a ~~[reactor inlet]~~ ^{source} second inlet line for olefin ~~[feed]~~ reactant operably connected into said first inlet line for olefin reactant from a second source of olefin reactant.

Claim 5. (Amended) A trimerization system in accordance with claim 1 further comprising an ~~[a separator]~~ inlet line operably connected into said reactor effluent line from a source ~~[for a stream]~~ of heavies ~~[to be separated]~~.

Claim 6. (Amended) A trimerization system in accordance with claim 1 wherein said inlet line from the source of catalyst system further comprises ~~[comprising]~~ a reactor inlet ~~[line for]~~ operably connected from a source of trimerization reaction solvent.